


Y6 – Spring – Block 2 – Step 1 – 1-step function machines Answers

Question	Answer																												
1	<table><tr><td>Number of triangles</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>10</td><td>30</td></tr><tr><td>Number of sticks</td><td>3</td><td>6</td><td>9</td><td>12</td><td>15</td><td>30</td><td>90</td></tr></table>	Number of triangles	1	2	3	4	5	10	30	Number of sticks	3	6	9	12	15	30	90												
Number of triangles	1	2	3	4	5	10	30																						
Number of sticks	3	6	9	12	15	30	90																						
2	<div>a) <table><tr><td>Number of bicycles</td><td>1</td><td>2</td><td>5</td><td>9</td><td>12</td><td>16</td></tr><tr><td>Number of wheels</td><td>2</td><td>4</td><td>10</td><td>18</td><td>24</td><td>32</td></tr></table></div> <div>b)  <table><tr><td>Number of ants</td><td>1</td><td>2</td><td>5</td><td>3</td><td>4</td><td>16</td></tr><tr><td>Number of legs</td><td>6</td><td>12</td><td>30</td><td>18</td><td>24</td><td>96</td></tr></table><p>Multiply the number of ants by 6</p></div>	Number of bicycles	1	2	5	9	12	16	Number of wheels	2	4	10	18	24	32	Number of ants	1	2	5	3	4	16	Number of legs	6	12	30	18	24	96
Number of bicycles	1	2	5	9	12	16																							
Number of wheels	2	4	10	18	24	32																							
Number of ants	1	2	5	3	4	16																							
Number of legs	6	12	30	18	24	96																							
3	<div>a) 55</div> <div>b) 43</div> <div>c) 100</div> <div>d) 5</div>																												
4	<div>a) 36</div> <div>b) 23</div> <div>c) 35</div> <div>d) 27</div>																												
5	<div><div>input</div><table><tr><td>8</td><td>→</td><td rowspan="4"><div>+10</div></td><td>→</td><td><div>output</div> 18</td></tr><tr><td>4</td><td>→</td><td>14</td></tr><tr><td>5.5</td><td>→</td><td>15.5</td></tr><tr><td>-2</td><td>→</td><td>8</td></tr></table></div>	8	→	<div>+10</div>	→	<div>output</div> 18	4	→	14	5.5	→	15.5	-2	→	8														
8	→	<div>+10</div>	→		<div>output</div> 18																								
4	→		14																										
5.5	→		15.5																										
-2	→		8																										
6	<div>a) $\times 5$</div> <div>b) $+ 7$</div>																												
7	<div>a) 50</div> <div>b) -50</div> <div>c) 50.5</div> <div>d) 950</div>																												
8	<div>Both children are correct.</div> <div>$6 + 9 = 15$ and $6 \times 2.5 = 15$</div>																												

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9	<div><div>input</div><div>3</div><div>→</div><div><div>+</div>9</div><div>→</div><div>output</div><div>12</div></div>						
	Input	3	4	5	10	20	100
	Output	12	13	14	19	29	109
	<div><div>input</div><div>3</div><div>→</div><div><div>×</div>4</div><div>→</div><div>output</div><div>12</div></div>						
	Input	3	4	5	10	20	100
	Output	12	16	20	40	80	400